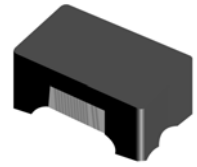


Wire Wound Chip Common Mode Choke Coil – SDCW-U Series

Operating Temp. : -40℃~+85℃



FEATURES

- Winding type realizes small size and low profile
- Prevention of common mode noise at high frequency
- Excellent solderability

APPLICATIONS

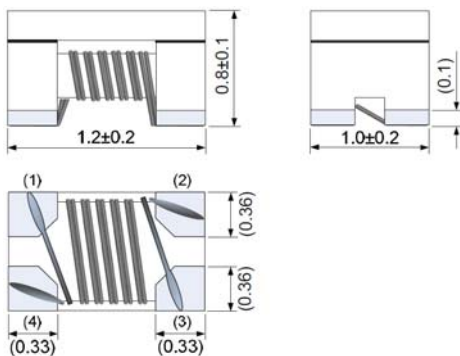
- Super speed differential signal lines for USB3.0.

PRODUCT IDENTIFICATION

<u>SDCW</u> ①	<u>2012</u> ②	<u>U</u> ③	<u>-2</u> ④	<u>-900</u> ⑤	<u>T</u> ⑥	<u>F</u> ⑦
①		②			③	
Type		External Dimensions (L×W) (mm)		Code		
SDCW	Winding Type	1210 [0504]	1.2×1.0	U	For Ultra High-speed	
	Common Mode Choke Coil	2012 [0805]	2.0×1.2		Differential Signal Lines	
		④				
		Number of Lines				
		2				
⑤					⑦	
Impedance		⑥		Hazardous Substance Free Products		
Example	Nominal Value	Packing				
900	90Ω	T	Tape & Reel	F		

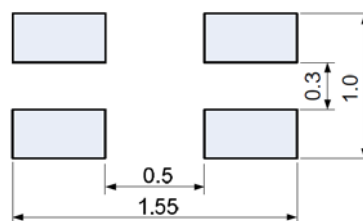
SHAPE AND DIMENSIONS

SDCW1210U TYPE



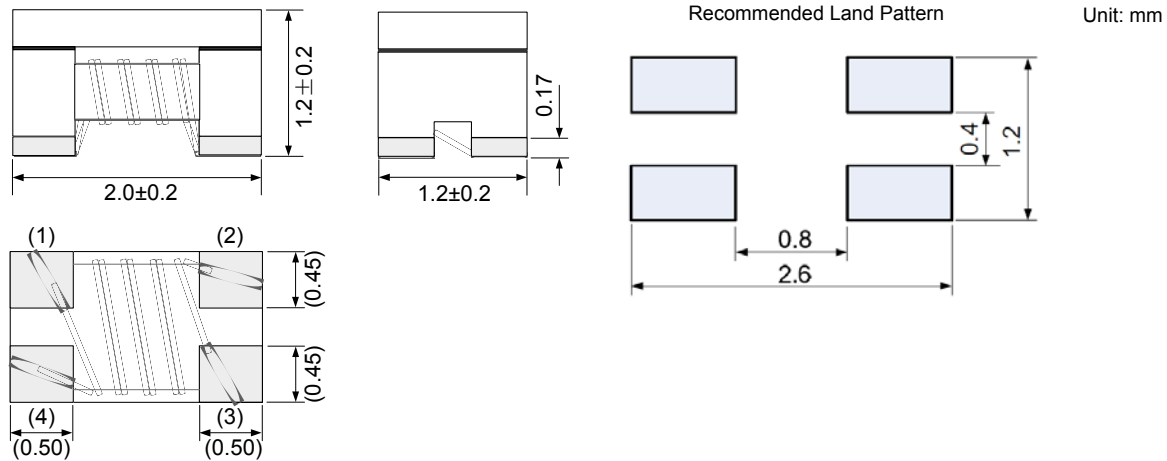
Recommended Land Pattern

Unit: mm



SHAPE AND DIMENSIONS

SDCW2012U TYPE



SPECIFICATIONS

SDCW1210U TYPE

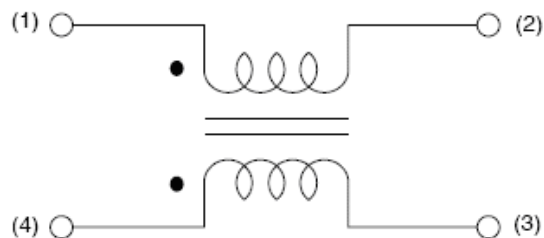
Part Number	Common Mode Impedance @100MHz	Max. DC Resistance	Max. Rated Current	Rated Voltage	Min. Insulation Resistance
Units	Ω	Ω	mA	Volts	M Ω
Symbol	Z	DCR	I _r	V _{DC}	IR
SDCW1210U-2-140TF	14 $\pm$ 25%	0.12	600	20	10
SDCW1210U-2-600TF	60 $\pm$ 25%	0.40	300	20	10
SDCW1210U-2-900TF	90 $\pm$ 25%	0.50	280	20	10

SDCW2012U TYPE

Part Number	Common Mode Impedance @100MHz	Max. DC Resistance	Max. Rated Current	Rated Voltage	Min. Insulation Resistance
Units	Ω	Ω	mA	Volts	M Ω
Symbol	Z	DCR	I _r	V _{DC}	IR
SDCW2012U-2-900TF	90 $\pm$ 25%	0.40	280	20	10

※: Products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

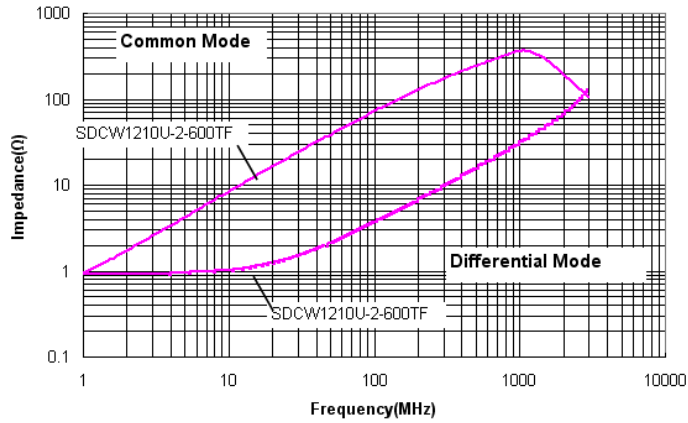
EQUIVALENT CIRCUIT



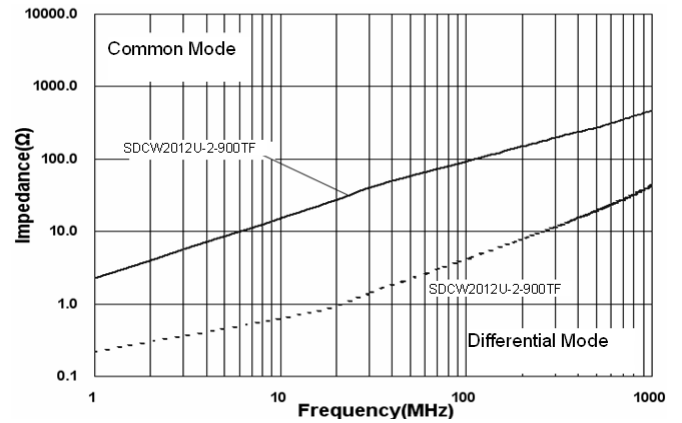
TYPICAL ELECTRICAL CHARACTERISTICS

Impedance vs. Frequency

SDCW1210U-2-600TF

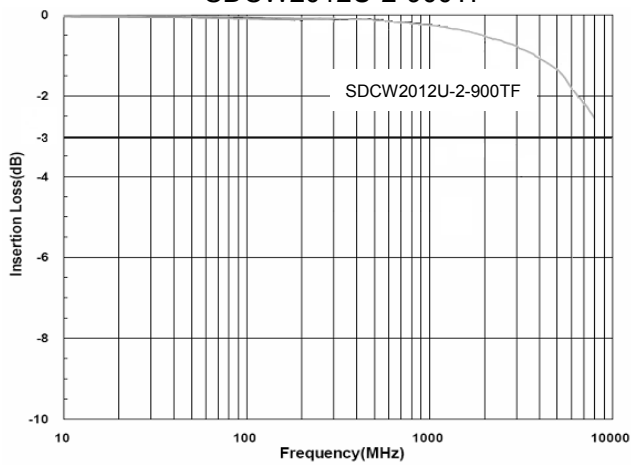


SDCW2012U-2-900TF



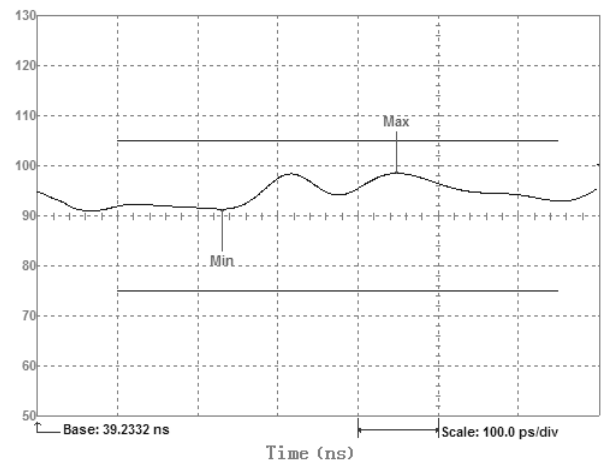
Insertion Loss

SDCW2012U-2-900TF



Differential Mode Impedance Characteristics

SDCW2012U-2-900TF



Eye Diagram in USB3.0

SDCW2012U-2-900TF

